CLAIMS

- ethylene/chlorotrifluoroethylene copolymers containing from 0.5 to 20% by moles of ethylene, optionally in combination with the chlorotrifluoroethylene homopolymer, wherein the composition contains in total from 90 to 99.5% by moles of chlorotrifluoroethylene and from 0.5 to 10% by moles of ethylene; said polymeric composition having a second melting temperature (Tmil) higher than 185-°C, preferably higher than 200°C.
- 2. A composition according to claim 1, containing in total from 1 to 6% by moles of ethylene, preferably from 1 to 5% by moles.
- 3. A composition according to claims 1-2, having a Melt Flow Index (M.I.) higher than 0.5 g/10', preferably higher than 2.0 g/10'.
- 4. Compositions according to claims 1-3, comprising a nucleating agent.
- 5. Foamable compositions according to claims 1-4 consisiting essentially of:
 - A) 50-99.9% by weight, preferably 70-95%, of the thermoprocessable polymeric composition according to claims 1-3;
 - B) 0.1-50% by weight of a nucleating agent, under fine

powder, having an average particle size lower than 50 micron, preferably lower than 20 micron, and a melting temperature higher than 250°C.

- 6. Foamable compositions according to claims 4-5, wherein the nucleating agent is selected between the tetrafluoroethylene homopolymer (PTFE) or its copolymers having second melting temperatures higher than 250°C.
- 7. Foamable compositions according to claims 1-6, wherein the nucleating agent B) is the tetrafluoroethylene homopolymer (PTFE) having a number average molecular weight lower than 1,000,000, preferably lower than 500,0-00.
- 8. Foamable compositions according to claim 6, wherein the TFE copolymers are selected from the TFE copolymers with perfluoroalkylvinylethers wherein the alkyl is a C_1 - C_3 , TFE copolymers with perfluorodioxoles, or TFE copolymers with hexafluoropropene (FEP), optionally containing perfluoroalkylvinylethers from 1 to 3 carbon atoms.
- 9. Foamable compositions according to claims 4-8, wherein the nucleating agent B) is a polytetrafluoroethylene (PTFE) irradiated with gamma rays or electron beam.
- 10. Compositions according to claims 4-9, wherein the nucleating agent is used in an amount from 5 to 30% by weight, more preferably from 10 to 20%.

- 11. Foamed molded articles and foamed coatings of electrical cables obtainable according to claims 4-10.
- 12. A process to prepare the composition according to claims
 1-3 by emulsion copolymerization of ethylene with chlorotrifluorethylene (CTFE) wherein all the CTFE is first
 charged in the reactor, continuously feeding the ethylene
 until a partial CTFE conversion, preferably from 40 to
 80% by weight, then by interrupting the ethylene feeding
 and continuing the polymerization until a substantial
 CTFE conversion.